



RE: SIM mixing zone: 300 ft regulatory mixing zone and marine criteria applied

Ahmed, Anise (ECY) to: Lisa Olson

06/24/2010 08:29 AM

History: This message has been replied to.

Hi Lisa:

I am so involved with other projects that I am not sure when I will get to SIM's mixing zone study. But I want to capture everything that we discussed. If you kept any meeting notes would you be kind enough to share that with me. I have some meeting notes as well. So, I will compile the two.

Thanks

Anise Ahmed, P.E.
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-----Original Message-----

From: Olson.Lisa@epamail.epa.gov [mailto:Olson.Lisa@epamail.epa.gov]
Sent: Wednesday, June 16, 2010 4:40 PM
To: Ahmed, Anise (ECY)
Cc: Cope.Ben@epamail.epa.gov
Subject: Re: SIM mixing zone: 300 ft regulatory mixing zone and marine criteria applied

Got it. Thanks, Anise.

Lisa

Lisa Olson
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From: "Ahmed, Anise (ECY)"
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To: Lisa Olson/R10/USEPA/US@EPA

Cc: Ben Cope/R10/USEPA/US@EPA

**SIM mixing zone**

Ahmed, Anise (ECY) to: Abbasi, Ed (ECY)
Cc: "Evans, Alison (ECY)", Lisa Olson

06/30/2010 11:06 AM

Hi Ed,

Following are my comments on the updated Seattle Iron and Metals (SIM) Mixing Zone Study. These comments also include discussions with EPA (Ben Cope and Lisa Olsen):

1. The near surface submerged discharge gave the lowest dilution factor. According to SIM this condition occurs only 14% of the time during the rainy season months. SIM is planning to address this issue in their engineering report to minimize/stop discharge during these events. Ecology concurs and encourages SIM to proceed in this direction.
2. Because the discharge is freshwater and the ambient waters are saline particularly at depth, a deep outfall would likely create a much better mixing and a higher dilution factor due to buoyancy. Ecology encourages SIM to explore this avenue

Lisa, please chime in if EPA comments were not answered in this e-mail.

Thanks

Anise Ahmed, P.E.

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